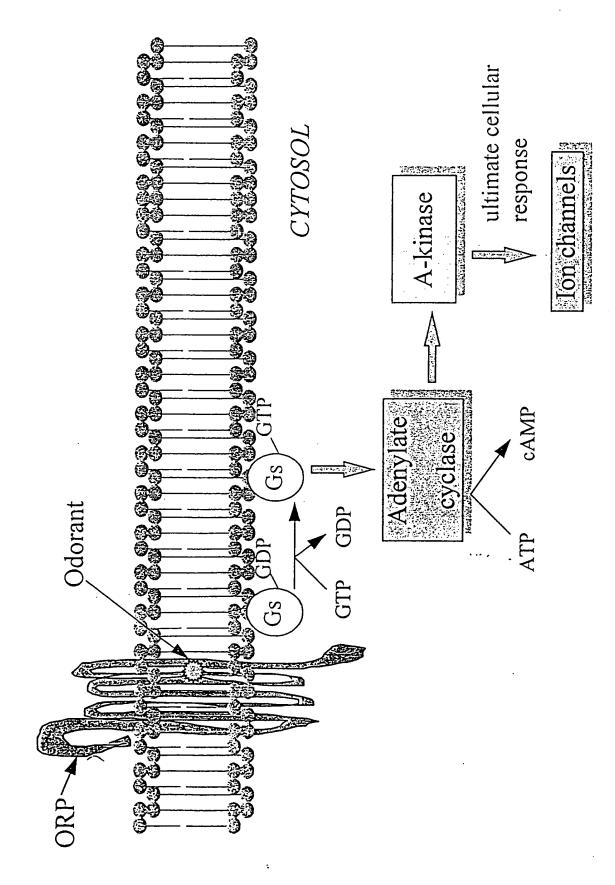
The major pathway of olfactory transduction



| Search protein sequence (10 Structure)

Insight II (affinity docking)

valence angle bending

torsion

bond stretching

van der Waals force

electrostatic force

GRAMM (geometric fit)

Éstablish 2º structure



Substrate (gas)

30 structure modeling with template

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intermolecular interactions inframolecular interactions solvation effects from the solvation effects from the solvation at its solvational changes.

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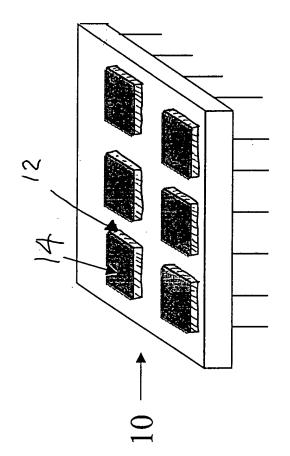


FIG3

Odorant/Olfactory Receptor Sequence of Canis familiaris: (SWISS-PROT:P30955)

MTEKNQTVVS EFVLLGLPID PDQRDLFYAL FLAMYVTTIL GNLLIIVLIQ LDSHLK **ESFLLVAMA** NTIPHFFCDN IGICKVFST LRNKDMKGAI MYFFLFFGDL LIMARLCFCA VSSILKVPSA TPMLNPFIYS SIPYAGCLTQ TIMAMMYTVV LTMFHAVLHT LLIITSYARI LCFSSVTMPK LLQNMQSQVP CFSLLVLSWV PSANNSTVKE MGGLILVIPF YGTVIGLYLC HYTTIMSPKL TQVNELVIFI LFLSNLSFSD DRYVAICFPL GSHLSVVSLF RRVICRKKIT SALLKLACSD

Amino acids: 330

Molecular weight: 35197 dalton

SOURCE:

(http://receptor.Mgh.Harvard.Edu/GCRDBHOME.Html) G protein Coupled Receptor DataBase (GPCRDB)

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Gas of detected	Peptides	
	B1	Pb2
Trimethylamine (5.86ppm)	5696	221
Dimethylamine (3.78ppm)	3851	589
Ammonia (4.86ppm)	1022	345
Acetone (7.21ppm)	13	31
Formic acid (1.33ppm)	161	97
Ethanol (4.68ppm)	-5	16
Formaldehyde (6.54ppm)	-25	19

Peptide sequence of B1:DPDQRDC

Peptide sequence of Pb2: LFLSNLSFSDLCA